IP Installer User's Manual

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About This Document

This document is prepared for users of netwrok video products supplied by Provix . It is assumed that the users are familiar with Microsoft Windows operating systems and Web browsers such as Internet Explorer. It is also assumed that the users are well aware of how to install and use the network equipment such as LAN, Hub, router, and having basic knowledge of network terminologies. If you have any questions regarding network installations, please contact your network equipment vendor or network administrator or Internet service providers.

Disclaimer

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1. About IP Installer

IP Installer is a proprietary utility program for network video products supplied by Provix Technologies Inc.. It enables users of Provix products to search their network for any Provix network camera, video server, or network device no matter what IP address it has. By using IP Installer, users will be able to facilitate network setup process for Provix products deployment.

- Runs on Microsoft Windows operating system (XP, Vista, 7)
- Searching for Network Cameras, Video Servers, and Network Video
- Recorders Capable of firmware updating for Provix products
- Support automatic and manual IP setup

2. Installing and Uninstalling

2.1. Installing IP Installer

If the program is started from the CD supplied with Provix products, insert the CD to the ODD tray and check the installation file. If it is download or copied from the Internet or any other media, locate the file from the PC's hard drive. You will see the icon as shown with the file name **IP Installer_Setup_3.0.1.exe**. The actual file name in your case may vary as the version changes. Double click the icon to star installation.

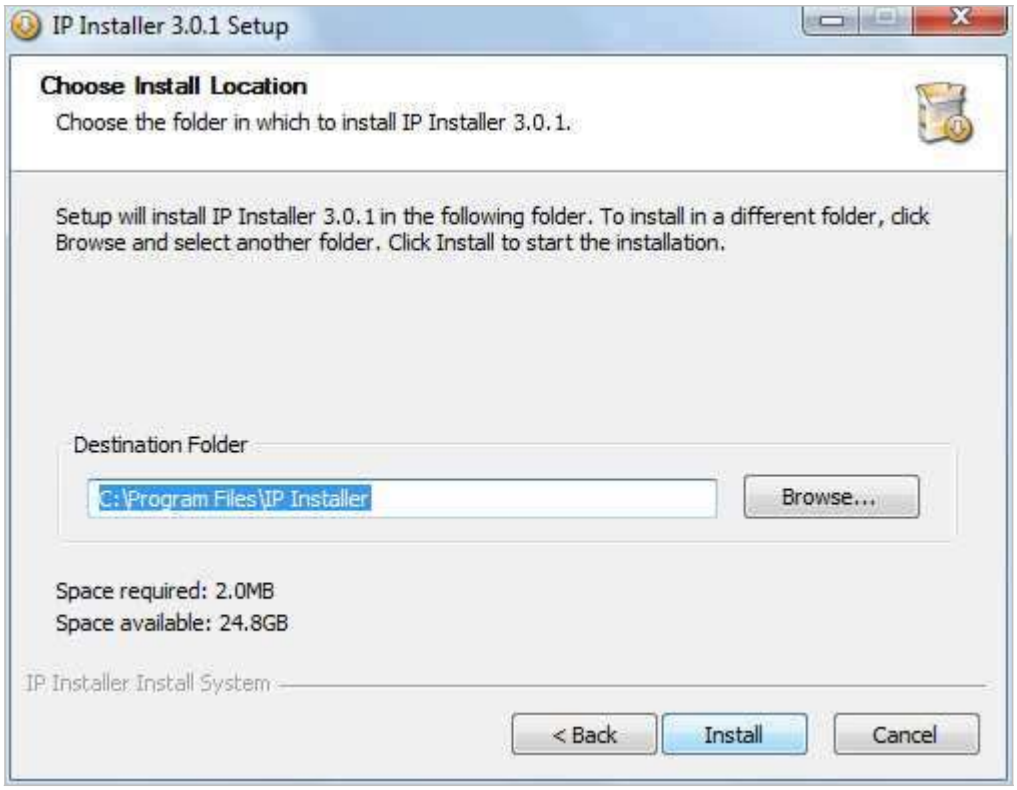
You may see a consent prompt for running this install program, which is an **User Account Control** of the Windows as shown below.

User Account Control
Do you want to allow the following program from an unknown publisher to make changes to this computer?
Program name: IP Installer_Setup_3.0.1.exe
Publisher: Unknown
File origin: Hard drive on this computer
Show details
Yes
No
Change when these notifications appear

Click **Yes** button, then the following window will be shown on the screen.

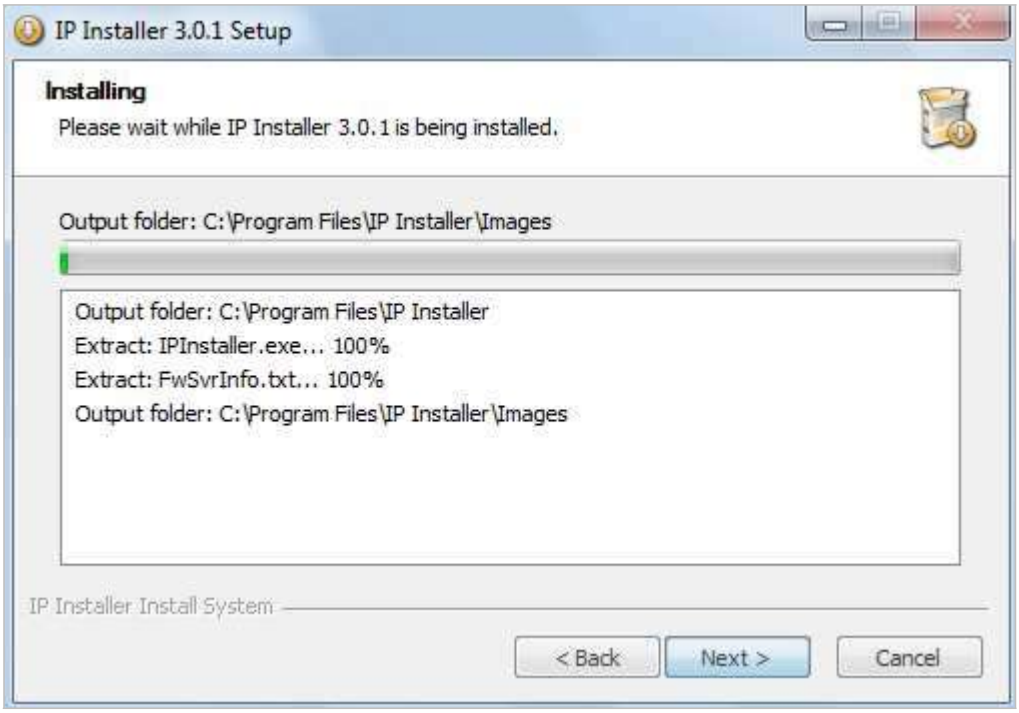
IP Installer 3.0.1 Setup
Welcome to the IP Installer 3.0.1 Setup Wizard
This wizard will guide you through the installation of IP Installer 3.0.1.
It is recommended that you close all other applications before starting Setup. This will make it possible to update relevant system files without having to reboot your computer.
Click Next to continue.
Next >
Cancel

To precede the installation, click **Next** button. The following window will be displayed for location to install.

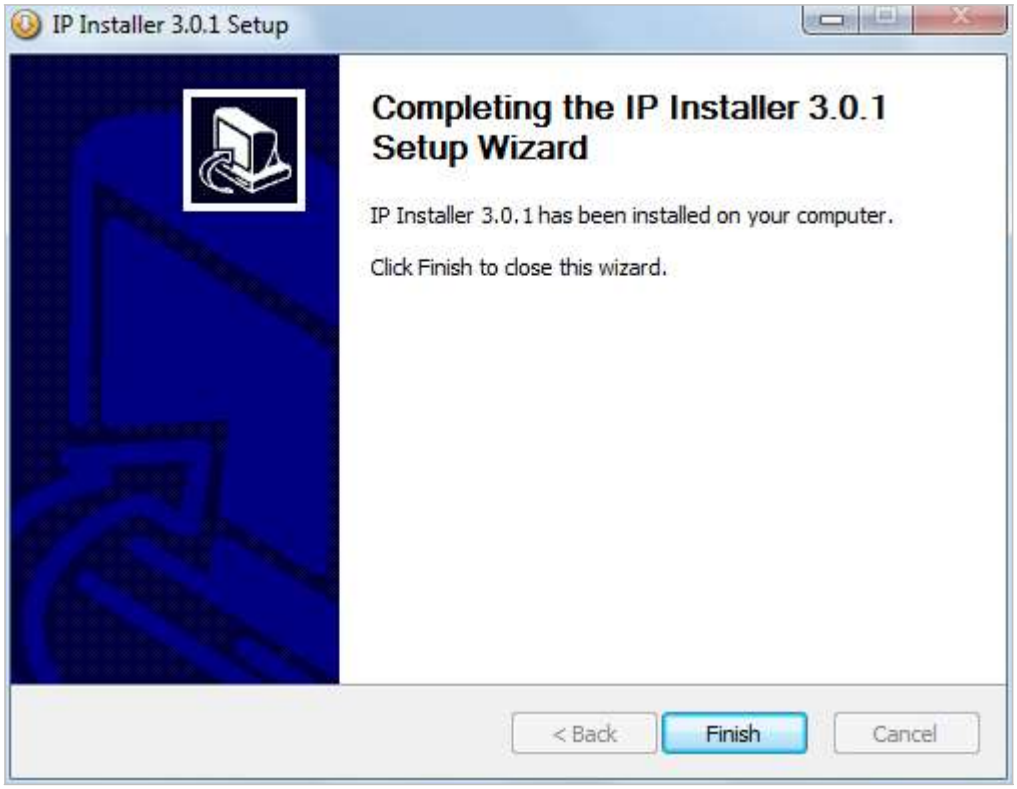

IP Installer 3.0.1 Setup
Choose Install Location
Choose the folder in which to install IP Installer 3.0.1.
Setup will install IP Installer 3.0.1 in the following folder. To install in a different folder, click Browse and select another folder. Click Install to start the installation.
Destination Folder
C:\Program Files\IP Installer
Browse...
Space required: 2.0MB
Space available: 24.8GB
IP Installer Install System
< Back
Install
Cancel

The default location for installation is **C:\Program Files\IP Installer**. It is recommended to install on this folder, but

if you want to change it to other location, click **Browse** button to choose a proper path as you'd like. Now click **Install** button. You will see the progress of copying install files to the hard drive as shown below.

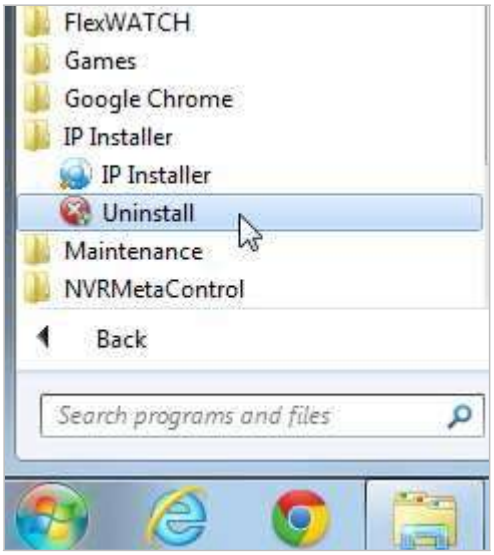

IP Installer 3.0.1 Setup
Installing
Please wait while IP Installer 3.0.1 is being installed.
Output folder: C:\Program Files\IP Installer\Images
Output folder: C:\Program Files\IP Installer
Extract: IPInstaller.exe... 100%
Extract: FwSvrInfo.txt... 100%
Output folder: C:\Program Files\IP Installer\Images
IP Installer Install System
< Back
Next >
Cancel

When the file copying is done, the following windows will be shown. Click **Finish** button to finish the installation.


IP Installer 3.0.1 Setup
Completing the IP Installer 3.0.1 Setup Wizard
IP Installer 3.0.1 has been installed on your computer.
Click Finish to close this wizard.
< Back
Finish
Cancel

2.2. Uninstalling IP Installer

If you want to remove the IP Installer program from your PC, click **Start > All Programs > IP Installer > Uninstall**.



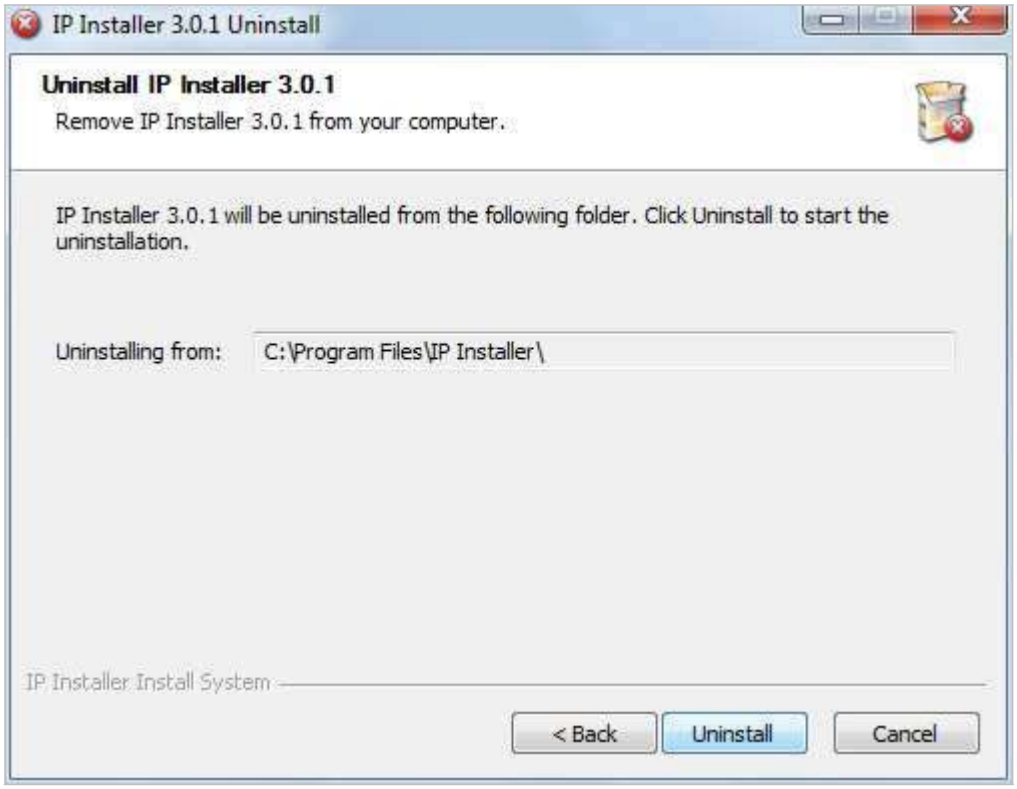
You may see a consent prompt for running this install program, which is an **User Account Control** of the Windows as shown below.

User Account Control
Do you want to allow the following program from an unknown publisher to make changes to this computer?
Program name: uninst.exe
Publisher: Unknown
File origin: Hard drive on this computer
Show details
Yes
No
Change when these notifications appear

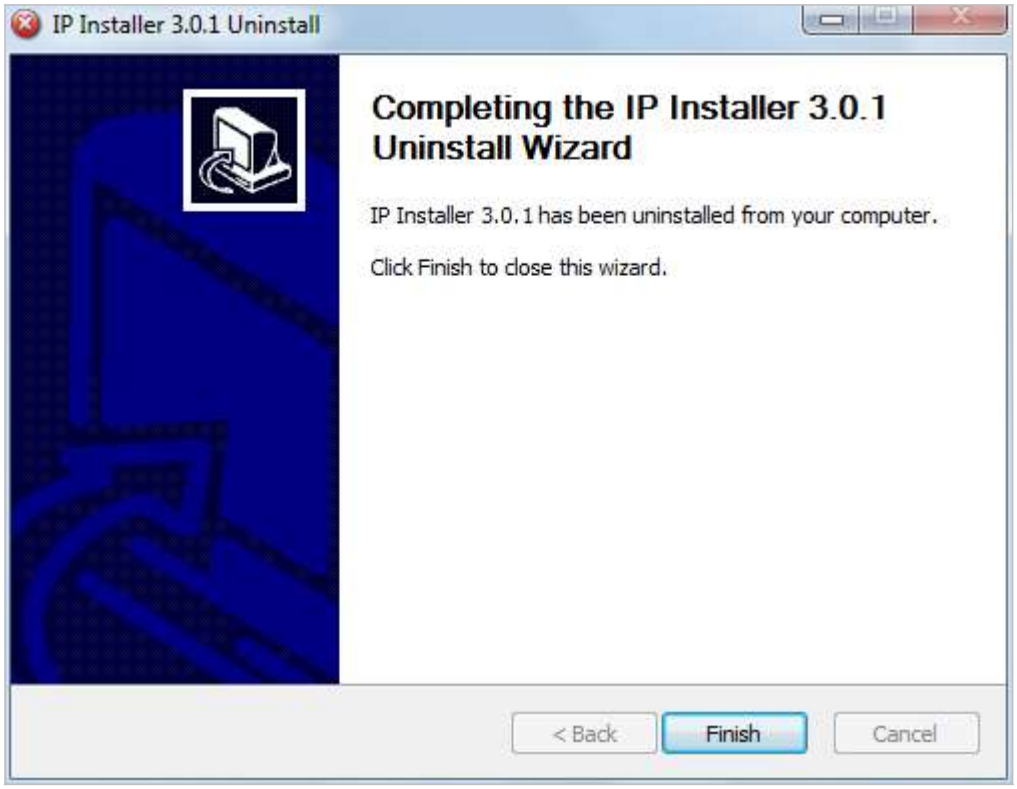
Click **Yes** button, then the following window will be shown on the screen.

IP Installer 3.0.1 Uninstall
Welcome to the IP Installer 3.0.1 Uninstall Wizard
This wizard will guide you through the uninstallation of IP Installer 3.0.1.
Before starting the uninstallation, make sure IP Installer 3.0.1 is not running.
Click Next to continue.
Next >
Cancel

Click **Next** button and you will see the following window.


IP Installer 3.0.1 Uninstall
Uninstall IP Installer 3.0.1
Remove IP Installer 3.0.1 from your computer.
IP Installer 3.0.1 will be uninstalled from the following folder. Click Uninstall to start the uninstallation.
Uninstalling from:
C:\Program Files\IP Installer\
IP Installer Install System
< Back
Uninstall
Cancel

Click **Uninstall** button to start removing the **IP Installer** program from your computer. The following window will be displayed. Click **Finish** button to close the window.

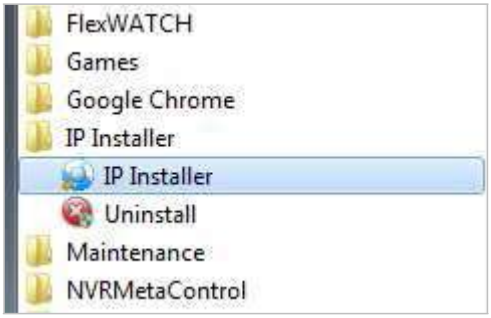

IP Installer 3.0.1 Uninstall
Completing the IP Installer 3.0.1 Uninstall Wizard
IP Installer 3.0.1 has been uninstalled from your computer.
Click Finish to close this wizard.
< Back
Finish
Cancel

3. Using IP Installer

3.1. Starting the Program

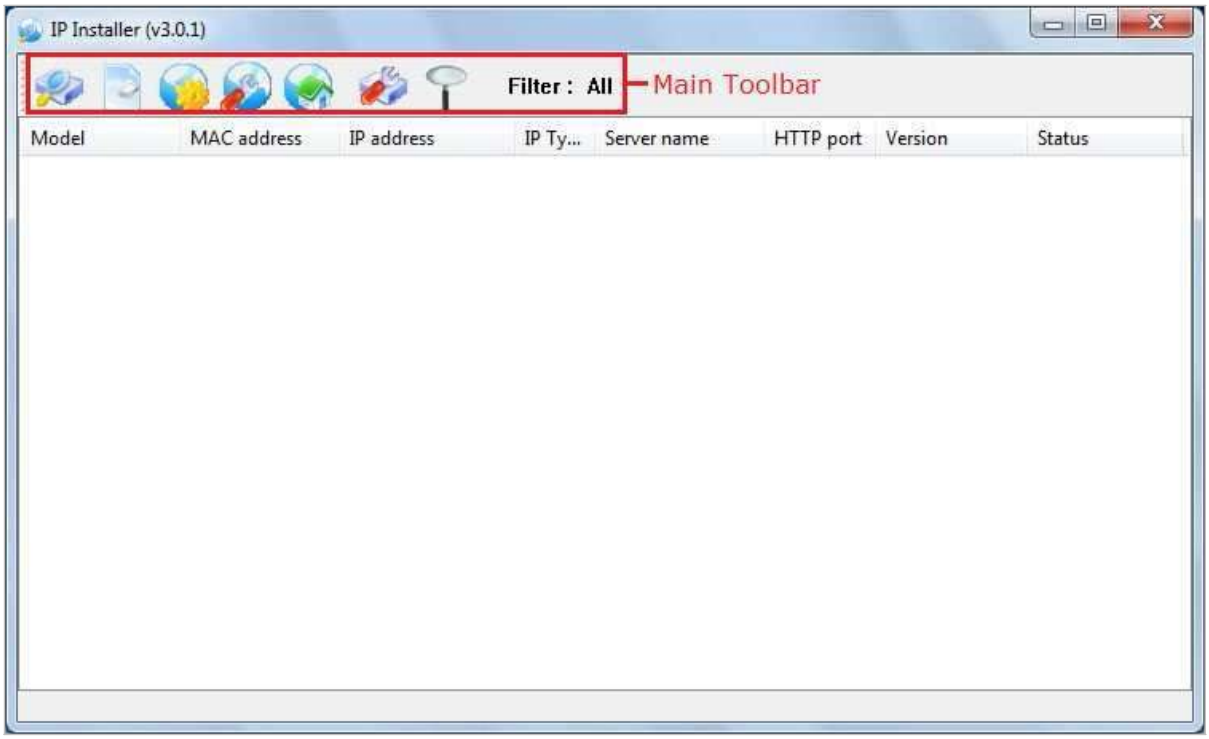
Once **IP Installer** program has been installed on your computer, a shortcut icon should be created on the desktop of you computer. You can start **IP Installer** by double clicking the icon.

Or you can also start the program by clicking **Start > All Programs > IP Installer > IP Installer** as shown below.



If this is the first time ever you installed and run this version of IP Installer program on your computer, you may see the following **Windows Security Alert** window. If so, click **Allow access** button, then the IP Installer program window will start normally.

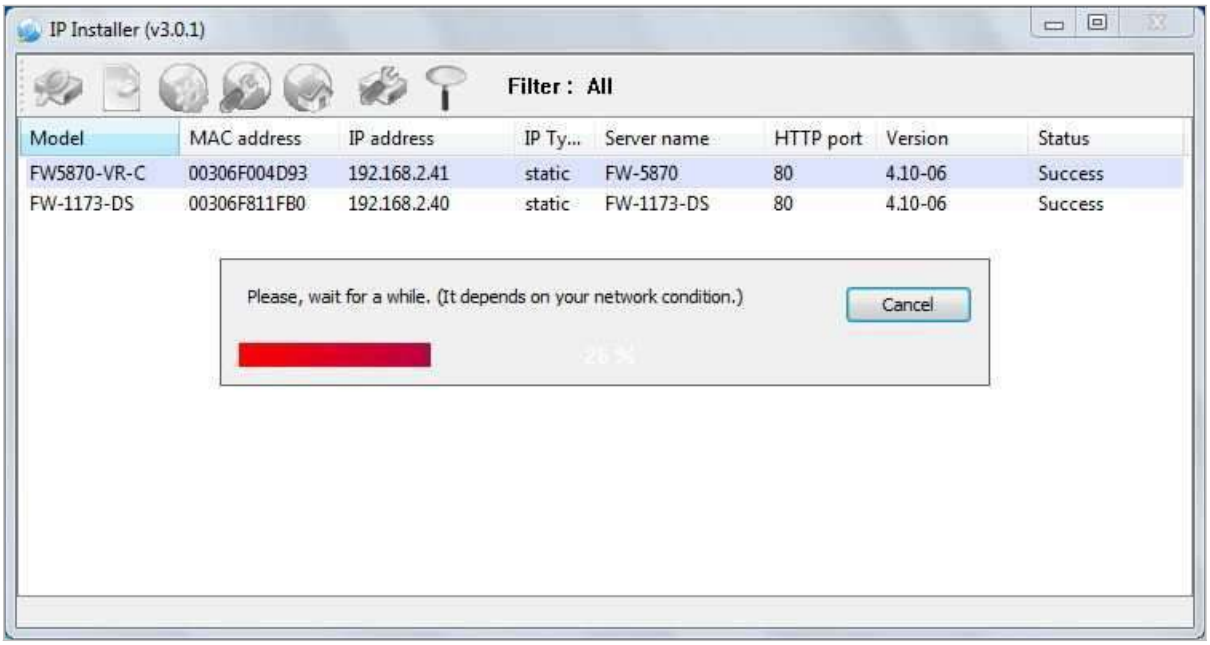
After the program is started, the main window of **IP Installer** program will be appear on the screen as shown below. There is no network device shown since it is the first time to run the program and nothing has been registered.



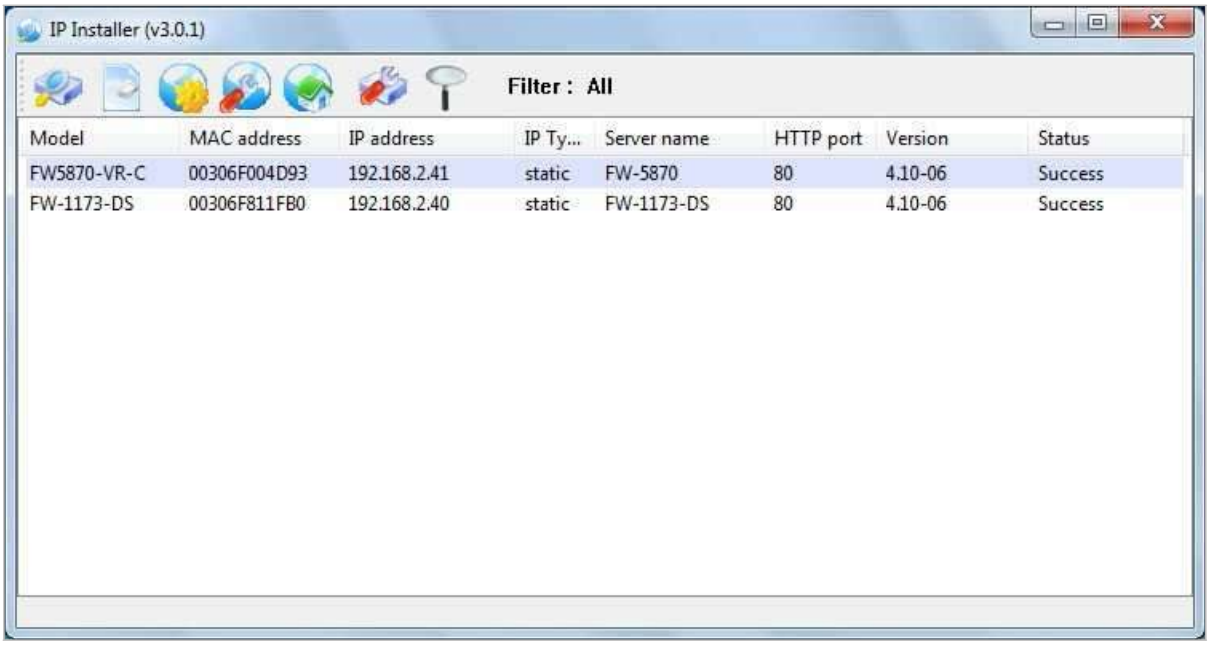
	Search Product	Scan the network and show the list of all the Provix products that IP Installer program found.
	Clear Product List	Clear the Provix products list created by searching the network.
	Automatic IP Setup	Configure the network setting of selected IP device in Automatic mode.
	Manual IP Setup	Configure the network setting of selected IP device in Manual mode.
	Connect Product Homepage	Connect to the server homepage of the selected IP device.
	Update Firmware	Update the firmware of the selected IP device.
	Filter Configuration	Define the range of MAC and IP addresses to search.

3.2. Search Product

Make sure that your Opticom products are connected to the network, and click the **Search Product** button. A status window will pop up to show the progress of the searching. Wait until it reaches 100%, or you may press **Cancel** button if you will go ahead with the result made until the moment.



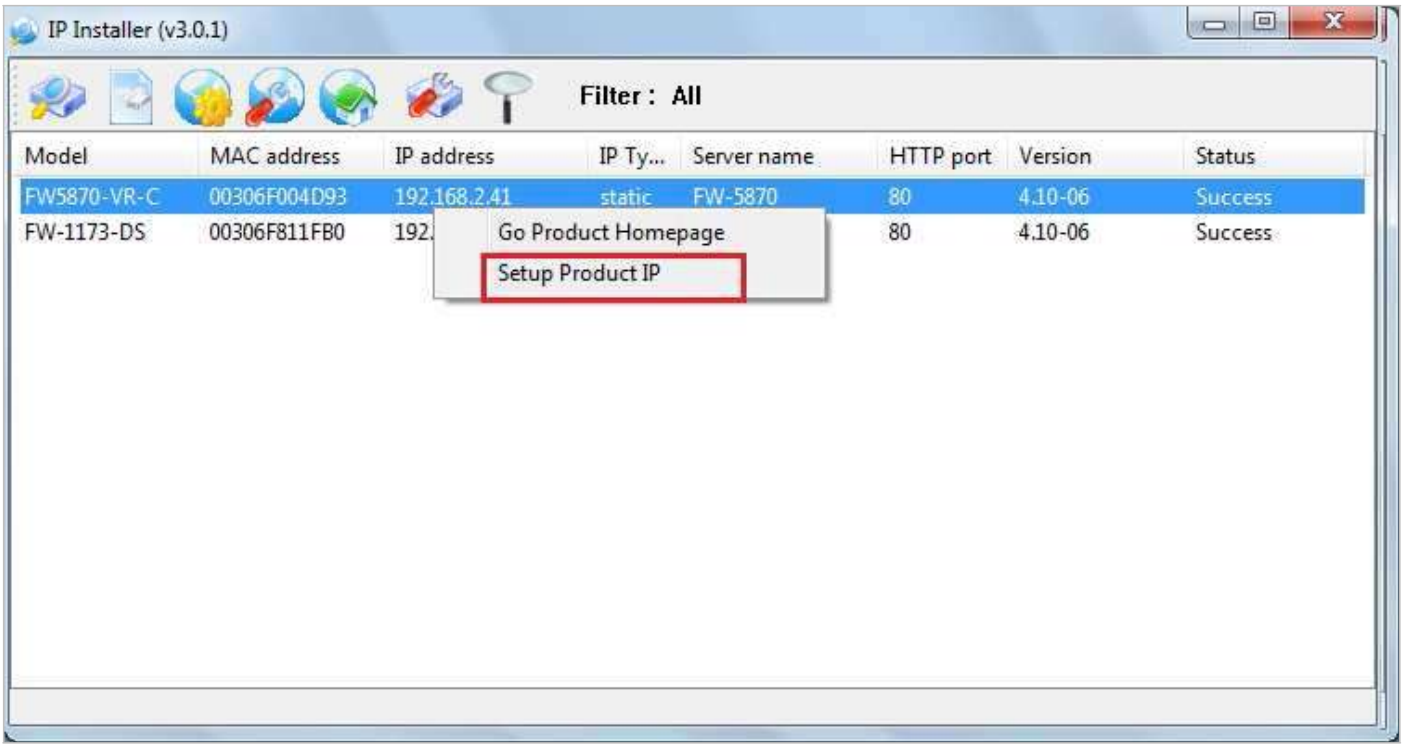
After searching is finished, **IP Installer** program will display the notification window of completion of searching. Click **OK** button to clear the window.



If you want to clear the list of the IP Devices from the window, click **Clear Product List** button from the Main Toolbar.

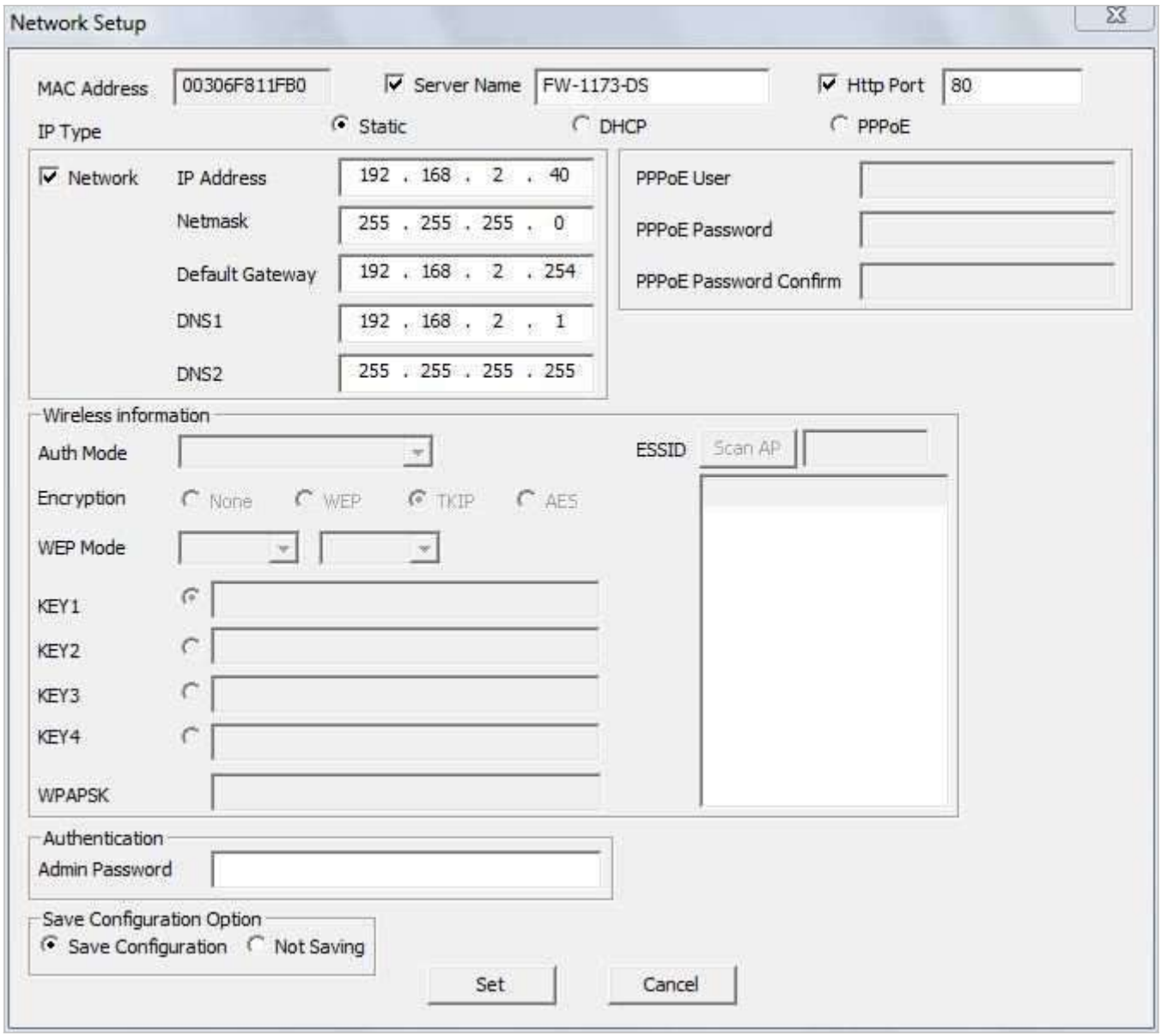
3.3. Manual Network Setup

Configuring the network parameters of the devices in the list can be started either by clicking right mouse button or by clicking **Manual IP Setup** icon on the main **Toolbar**.



Before starting the setup, you first need to choose the one to be configured. You may choose only one device by clicking it, or you can choose two or more devices by clicking one after another while you keep pressing **CTRL** key of your keyboard.

3.3.1. When one IP device is selected..



MAC Address	MAC address of the selected device is shown.
Server Name	Name of the selected IP device.
HTTP Port	HTTP port number of the IP device for web access to homepage.
IP Type	How to assign IP address to the device (Select **Static** here for Manual IP Setup)
Network	General network parameters are required in this part. Please contact your network administrator for detail. (**IP Address, Netmask, Default Gateway, DNS1, DNS2**)
PPPoE	(This is not used in Manual IP Setup)

Wireless Information	Enter the values for connecting to wireless network. Contact your network administrator for details. (Only available for devices with Wireless option) • **Auth Mode**: Choose from Open System, Shared Key, WPAPSK, WPA2PSK. • **ESSID:** Enter the name of the Access Point to connect to. • **Encryption**: Choose from None, WEP, TKIP, AES. The selections are dependent on which Authentication mode as below.

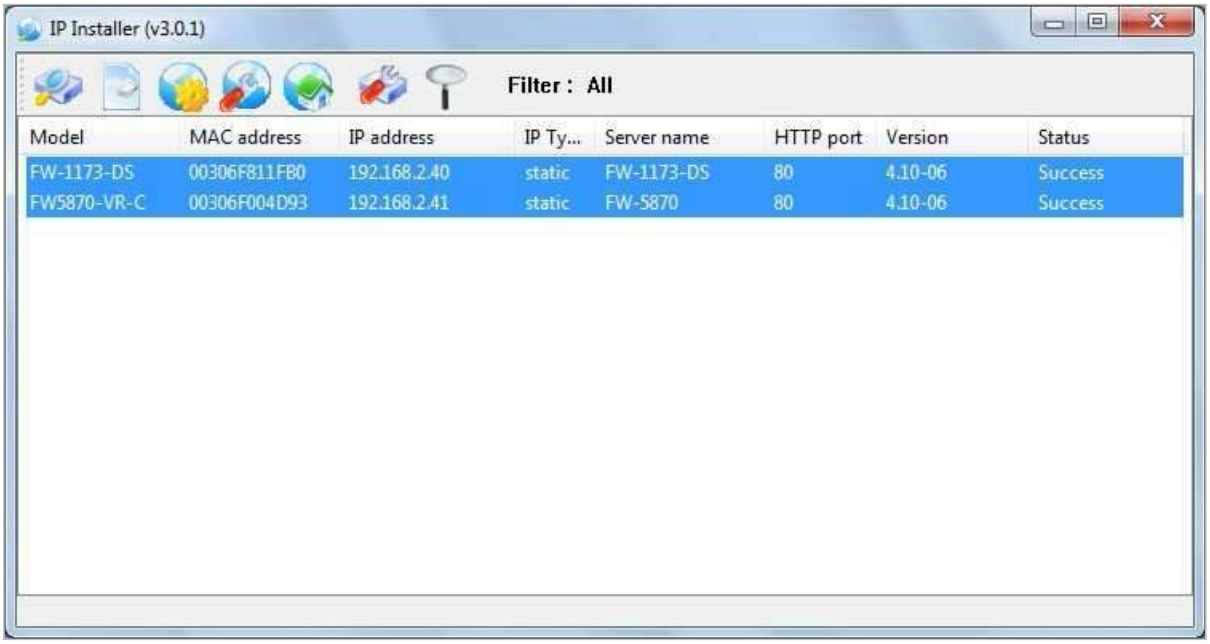
Authentication Mode	Supported Encryption
Open, Shared	N/A or WEP
WPAPSK, WPA2PSK	TKIP, AES

	• **WEP Mode**: Select either 64-bit or 128-bit modes, or either HEX or ASCII. • **KEY1 – 4**: Enter WEP Keys accordingly to Key numbers. • **WPAPSK**: If you chose to use WPASK or WPA2PSK mode in Auth mode, enter here the appropriate TKIP or AES value. The maximum length is 63 ASCII characters.
Authentication (Admin Password)	Password for the IP device. (Default password for Provix products is "**root"** unless already changed) Select
Save Configuration Option	whether the configured contents is to be saved in the Flash memory or not. • **Save Configuration**: Changed values will be saved in the Flash memory of the device, which means the changes are permanent. • **Not Saving**: Changed values will not be saved in the Flash memory, which means if the IP device is turned off the changes are lost and the previous setting will be applied back.

Click **Set** button to apply the changed values to IP device. If you don't want it, click **Cancel** button.

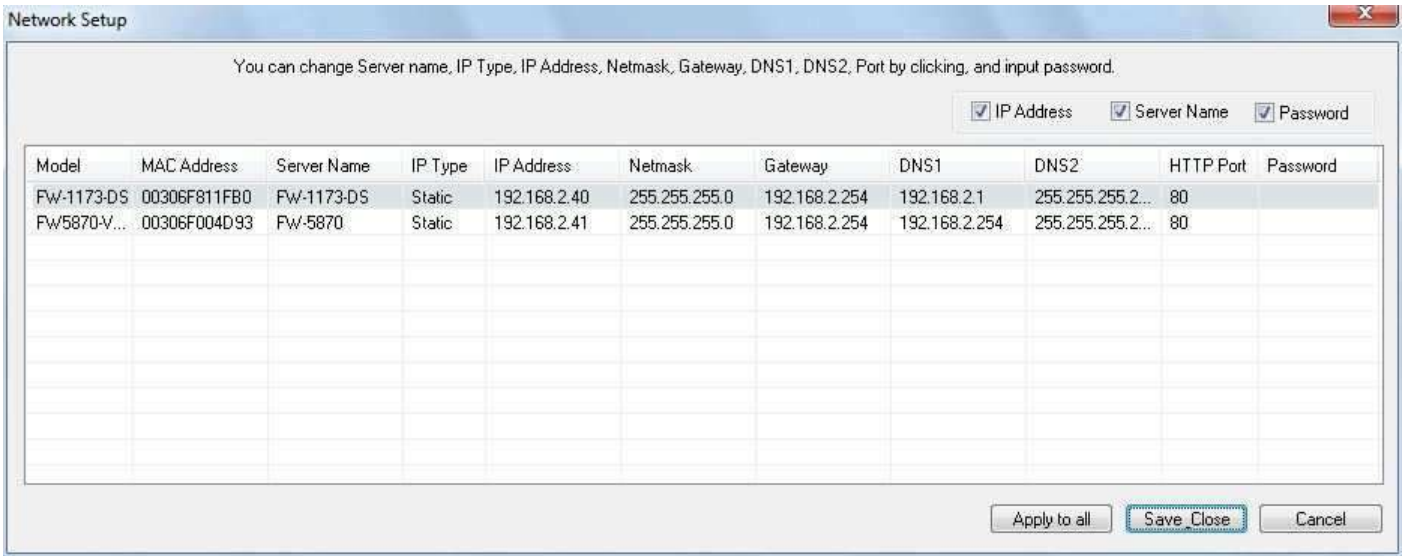
3.3.2. When two or more IP devices are selected..

You can select two or more IP devices at the same time by click one after another while CTRL key is pressed. The result is shown as below.

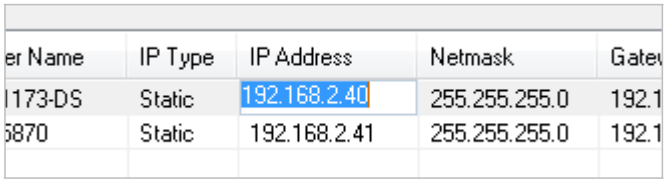


To configure the network parameters of those devices, click the right mouse button or click **Manual IP Setup** icon

on the main **Toolbar** with multiple IP devices selected as shown above. Then the following window will show up.



You can modify the value of each changeable field by clicking it. The following shows an example of entering a new value to a field.



Model	Model Numbers of the IP devices that you selected.
MAC Address	MAC address of the selected device is shown.
Server Name	Name of the selected IP device.
IP Type	How to assign IP address to the device (Select **Static** here for Manual IP Setup)
IP address, Netmask, Gateway, DNS1, DNS2	General network parameters are required in this part. Please contact your network administrator for detail.
HTTP Port	HTTP port number of the IP device for web access to homepage.
Password	Password for the IP device. (Default password for Provix products is "**root**")

If you click **Apply to all** button after change just a field of one IP device, the remaining IP devices will have the same value for that parameter. In this case, each device's **Server name** and **IP Address** field will have +1 incremented value added to the original value. For example, if the first IP device has been given the server name of **NetCam** and **Apply to all** button is pressed, it will be automatically changed to **NetCam1** and the next IP device will have **NetCam2** and so on. The same applies to the **IP address** field.

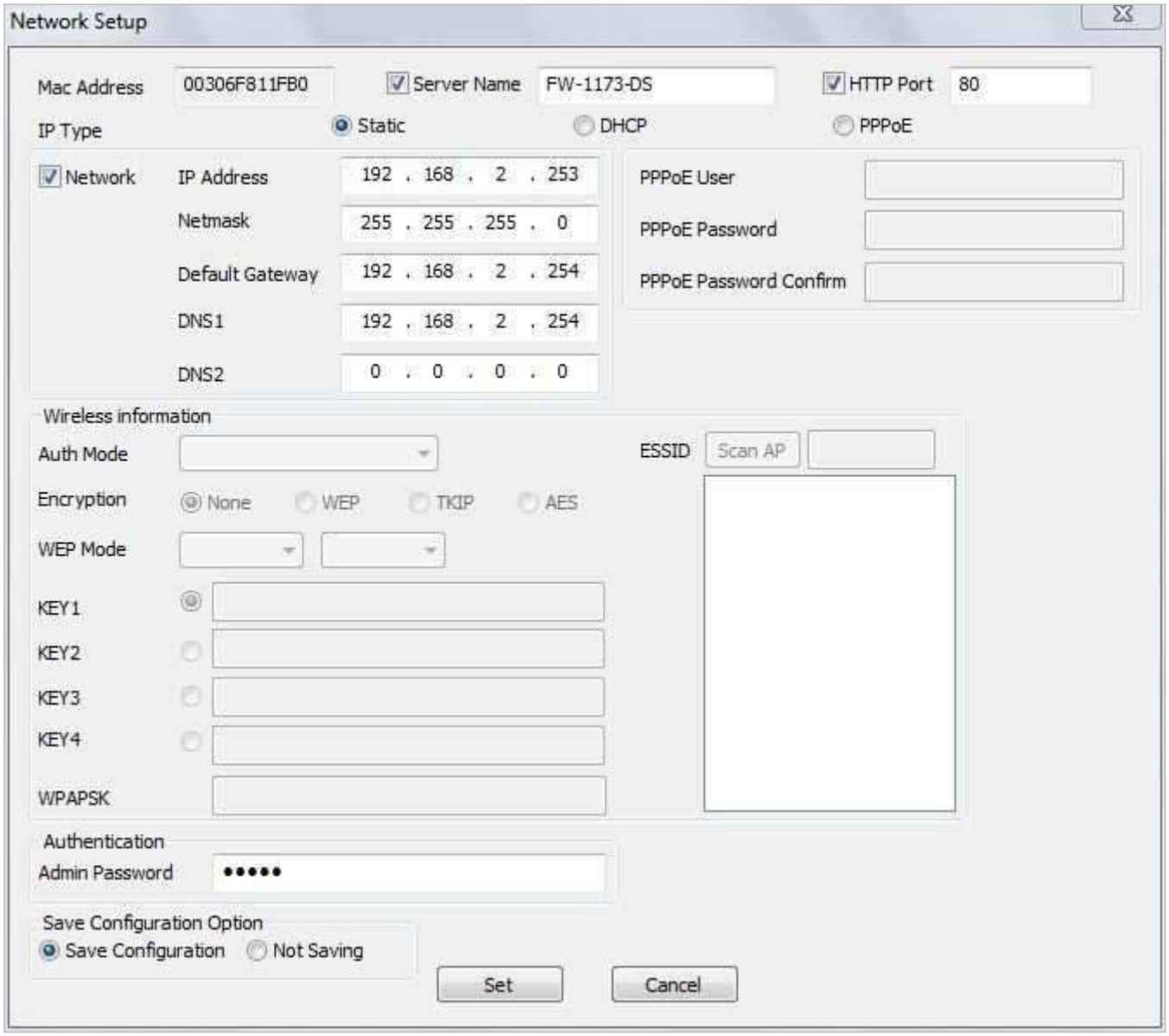
For Password field, the entered information doesn't incremented but will use the same data.

In using **Apply to all**, you can choose which field is affected. Put check marks only on the devices you want to use this automatic action as below.

Click **Save & Close** button to save the changed values in the Flash memory of all the IP devices and close the Network setup window.

3.4. Automatic Network Setup

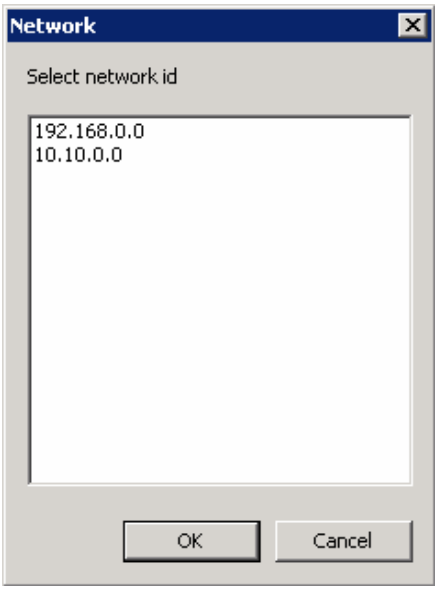
Configuring the network parameters of the devices in the list can be started either by clicking right mouse button or by clicking **Automatic IP Setup** icon on the main **Toolbar**. Before starting the setup, you first need to choose the one to be configured. In this setup mode, IP Installer program checks your local network and assigns available IP addresses to the IP devices. You have a choice of using those automatically assigned IP addresses, or you can just enter other IP addresses as you desire.



Server Name	Name of the selected IP device.
HTTP Port	HTTP port number of the IP device for web access to homepage.
IP Type	How to assign IP address to the device (Select **Static** here for Manual IP Setup)
Network	General network parameters are required in this part. Please contact your network administrator for detail. (**IP Address, Netmask, Default Gateway, DNS1, DNS2**)
Authentication (Admin Password)	Password for the IP device. (Default password for Provix products is "**root"**)
Save Configuration Option	Select whether the configured contents is to be saved in the Flash memory or not. • **Save Configuration**: Changed values will be saved in the Flash memory of the device, which means the changes are permanent. • **Not Saving**: Changed values will not be saved in the Flash memory, which means if the IP device is turned off the changes are lost and the previous setting will be applied back.

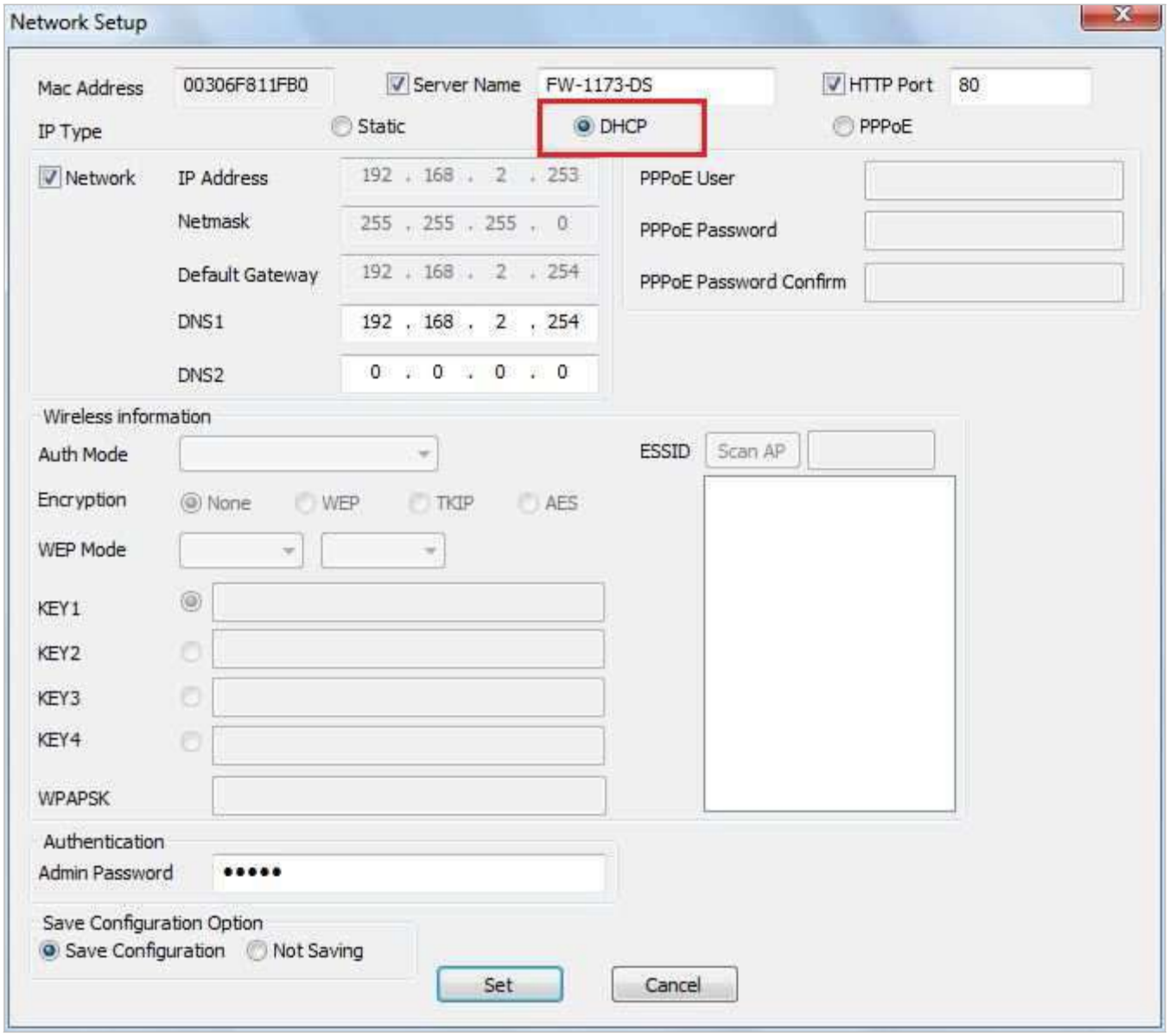
Click **Set** button to apply the changed values to IP device. If you don't want it, click **Cancel** button to restore the previous values.

Note: If your network has more than one IP address classes at the same time, the confirmation window will be displayed as below. You need to choose the one you are going to use for your IP devices.



3.5. Using DHCP Server

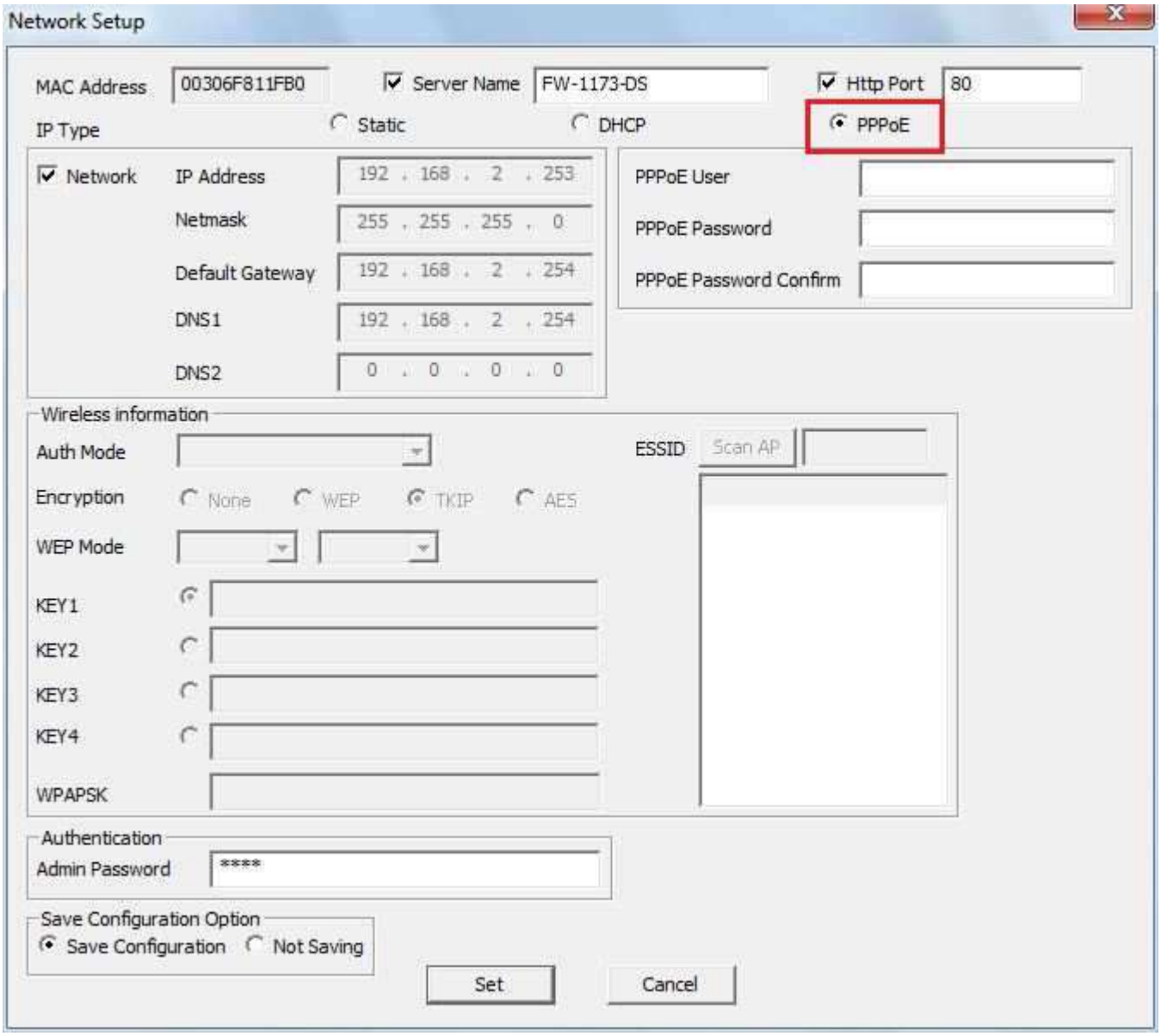
If your network has a DHCP server running for assigning IP addresses, you may choose to let it assign IP addresses to the IP devices on the list. To do that, first open the Network Setup window either by **Manual IP Setup** or **Automatic IP Setup** procedure. Choose **DHCP** in IP Type selection, then **IP Address**, **Netmask**, **Default Gateway** field in **Network** setup area on the window will be disabled to input as shown below.



For setting up other fields on the setup window, refer to **3.3 Manual Network Setup**. After filling up the fields with appropriate values, click **Set** button to apply the changed values to IP device. If you don't want it, click **Cancel** button to restore the previous values.

3.6. Using PPPoE

If your network environment is based on PPPoE connection, you'll need to choose **PPPoE** on IP Type selection. First open the Network Setup window either by **Manual IP Setup** or **Automatic IP Setup** procedure. Choose **PPPoE** in IP Type selection, then all the fields in **Network** setup area on the window will be disabled. The network settings such as IP Address, Netmask, Default Gateway, DNS are no longer available to enter. You only need to enter the Server Name, HTTP Port number, and login authentication for your PPPoE connection.



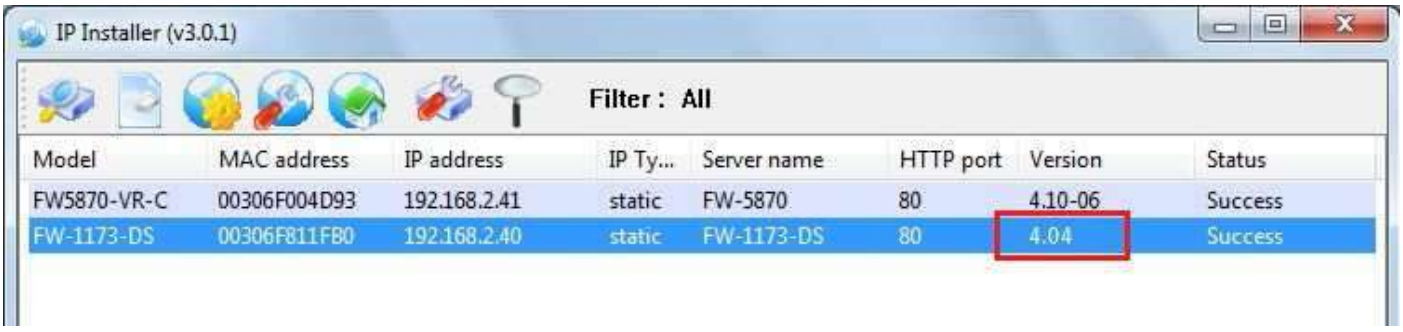
Note: In PPPoE mode, Wireless configuration is not available.

MAC Address	MAC address of the selected device is shown.
Server Name	Name of the selected IP device.
HTTP Port	HTTP port number of the IP device for web access to homepage.
IP Type	How to assign IP address to the device (Select **PPPoE** in this mode)
PPPoE	User Authentication for PPPoE Connection. • **PPPoE User**: Enter User ID. • **PPPoE Password**: Enter Password for the User ID. • **PPPoE Password Confirm**: Enter the same Password again.
Authentication (Admin Password)	Password for the IP device. (Default password for Provix products is "**root**" unless already changed)
Save Configuration Option	Select whether the configured contents is to be saved in the Flash memory or not. • **Save Configuration**: Changed values will be saved in the Flash memory of the device, which means the changes are permanent. • **Not Saving**: Changed values will not be saved in the Flash memory, which means if the IP device is turned off the changes are lost and the previous setting will be applied back.

*Note: After setting up the network for the IP devices, make sure the IP devices are accessible on the network from your computer. It can be done by running Live View function of the homepage of the IP device's built-in server. Refer to **3.9 Live View** section for how to do it.*

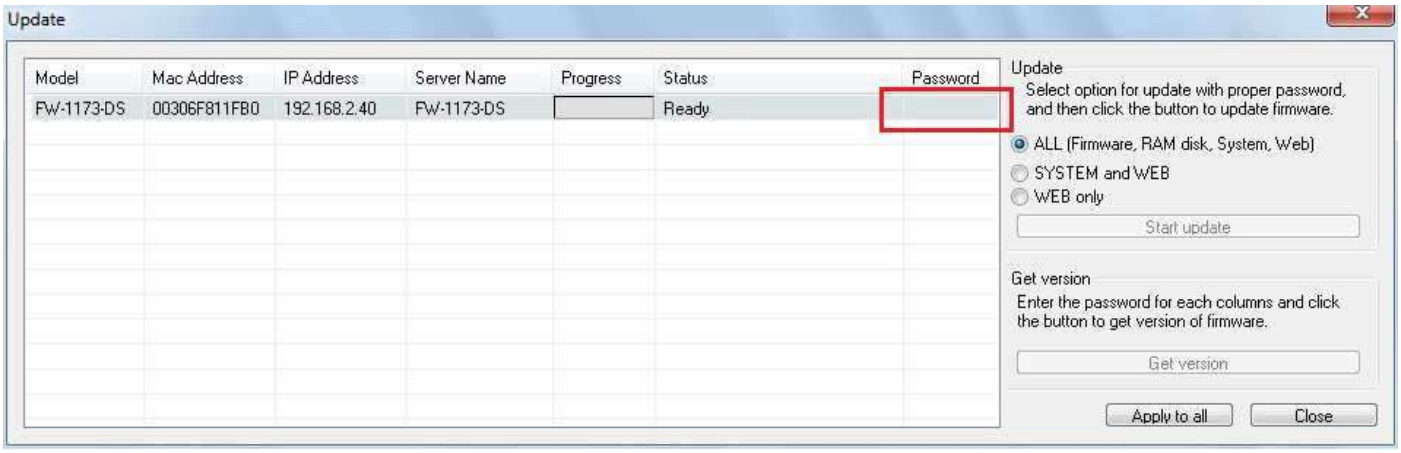
3.7. Updating Firmware

Once IP devices are searched and shown on the screen as functioning successfully, you can update the firmware of them in IP Installer program. To do that, first check the firmware version of the device, which you can find on the IP Installer window.



In the above picture, the firmware version of this product is 4.04 while the latest firmware version available is 4.10-06 as you could see at Opticom's homepage (http://www.opticomtech.com). If you decide to update the firmware, first download the latest firmware into the hard drive of your computer. Unzip the file if it is compressed.

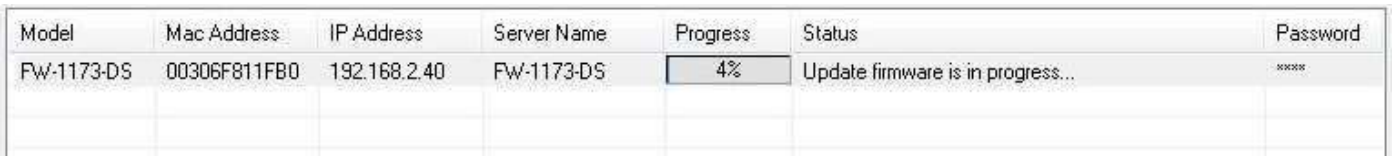
Then select the IP device to be updated on IP Installer window, then click **Update Firmware** button from the toolbar. The following window will be displayed.



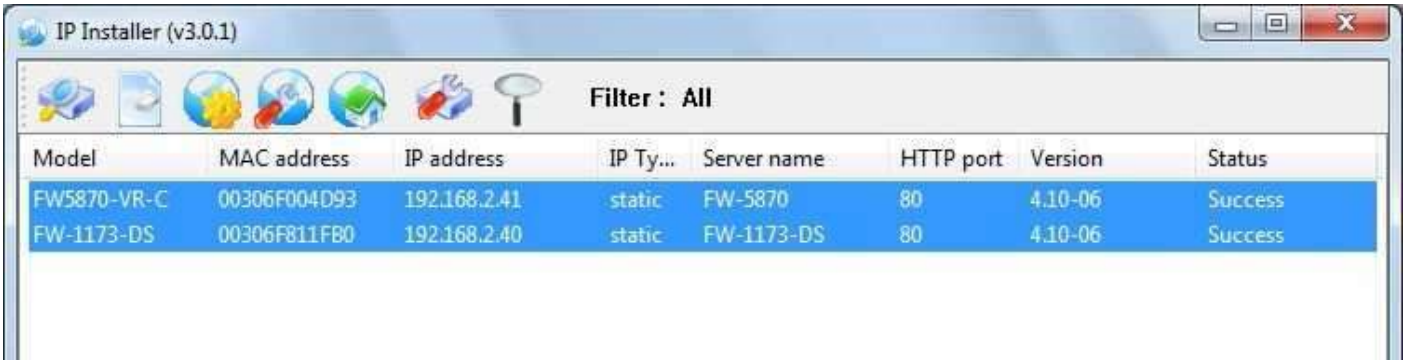
You may find the **Password** field is empty on the window shown above. If so, click the Password field of the IP device and enter the proper password for the device. You are not allowed to update the firmware if the correct password is not provided.

After the password is entered, the **Start Update** button will be enabled now. Click the button to see the following window for selecting the firmware files.

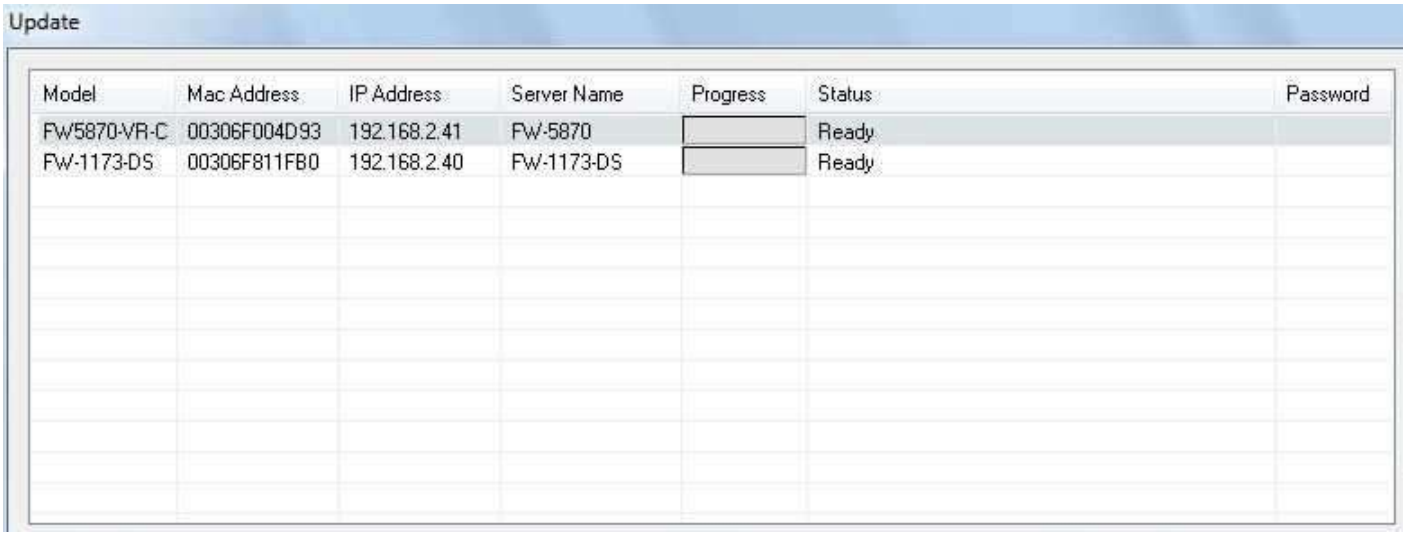
Locate the firmware files on the hard drive and click **OK** button. The firmware updating will start.



You can also select multiple IP devices at the same time, and have them start firmware updating in a single step. Select the files to update by using CTRL key as below.



Click **Start Update** button. You will see the update window brought up with multiple IP devices listed.

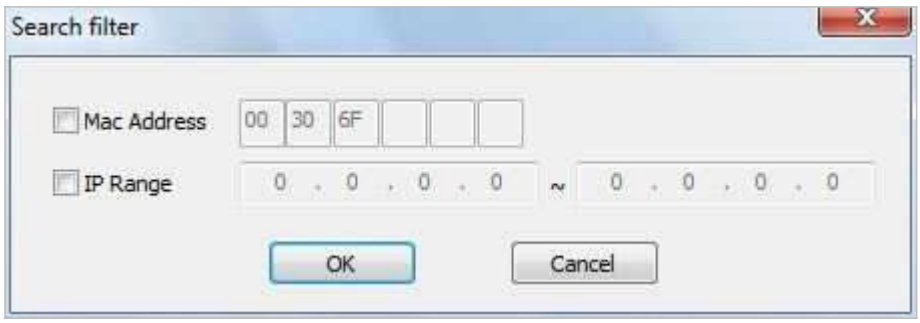


The rest of the procedure is the same as in the firmware update case for a single IP device.

> *Note: The detailed information of firmware files and the procedure can be found in Provix User's Manual.*

3.8. Filter Configuration

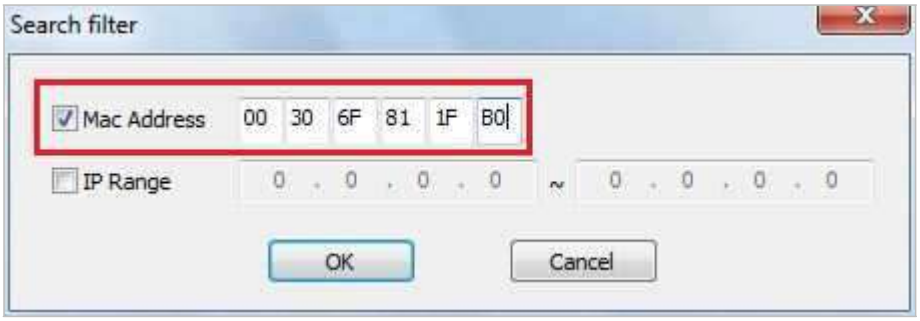
When you need to search only for the IP device having a specific range of MAC or IP addresses, you can do it by using this feature. To set the search condition, click **Filter Configuration** button on the Toolbar, then the following window will show up on the screen.



The first six HEX characters are already filled with 00:30:6F, which is MAC prefix for our products. Put a checkmark **MAC Address** or **IP Range** to set the range for searching.

You can set the range of IP addresses to scan as shown below. In this example, all the IP devices having MAC address starting with 00:30:6F will be listed on the result window after scanning.

Or you can look for a single IP device having a specific IP address as below.

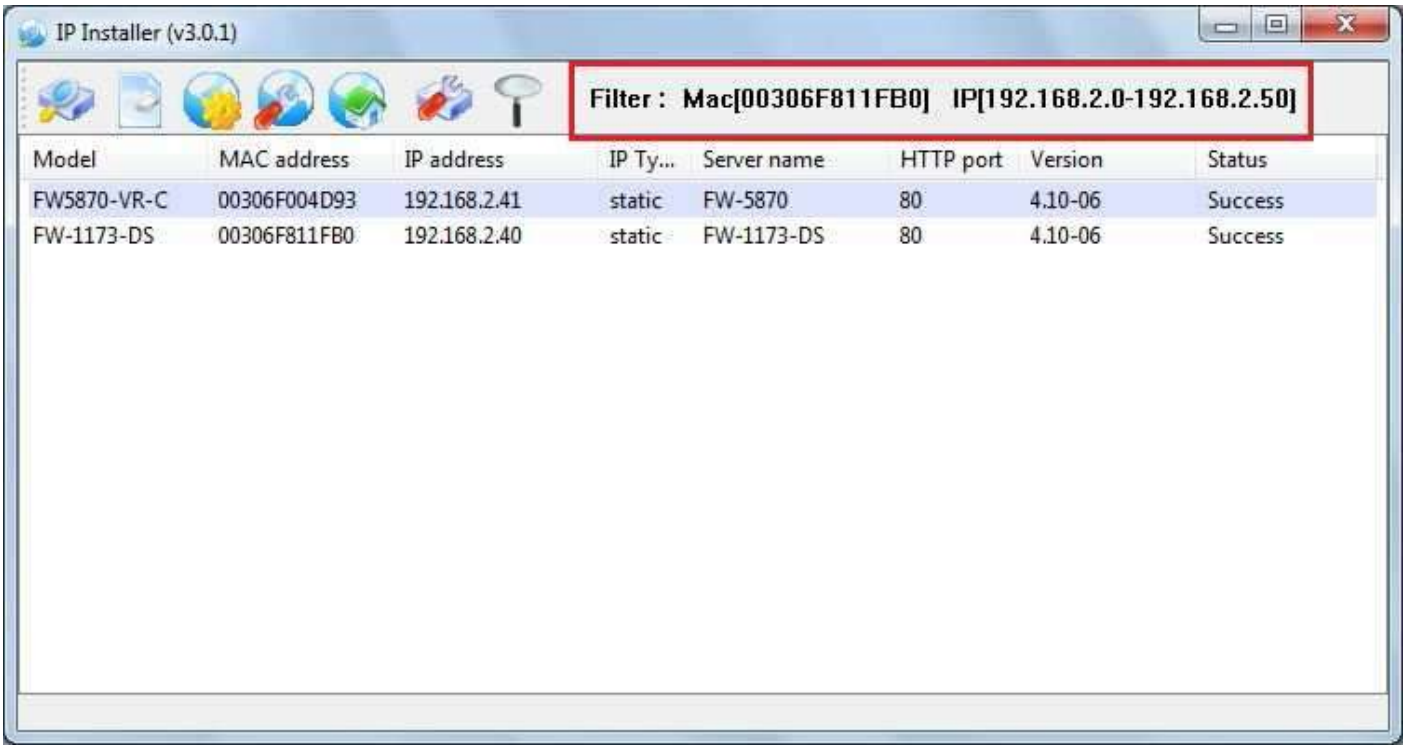


IP Address range for searching can be entered as follows.

You may even set both MAC Address and IP Range together at the same time.

After setting the searching range as explained above, click **OK** button. Then IP Installer program window will show

the searching range on the top right portion of the window as shown below.

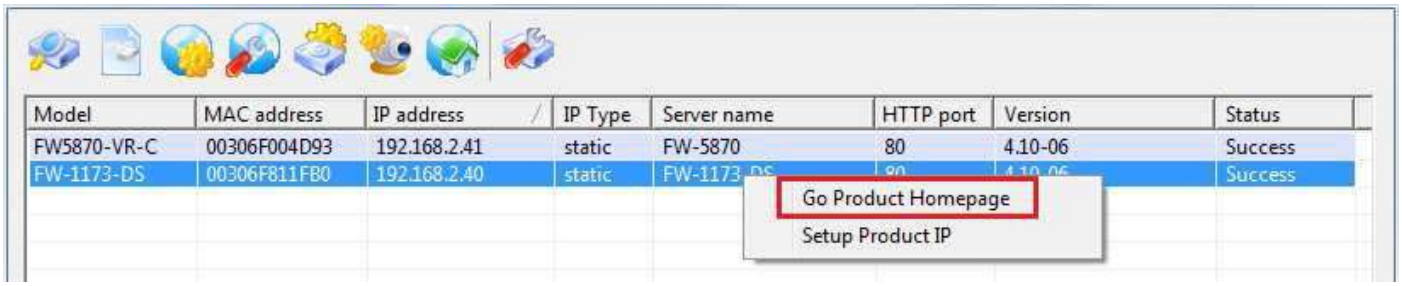

IP Installer (v3.0.1)
Filter : Mac[00306F811FB0] IP[192.168.2.0-192.168.2.50]
Model MAC address IP address IP Ty... Server name HTTP port Version Status
FW5870-VR-C 00306F004D93 192.168.2.41 static FW-5870 80 4.10-06 Success
FW-1173-DS 00306F811FB0 192.168.2.40 static FW-1173-DS 80 4.10-06 Success

To start searching with this condition now, click **Search Product** button on the toolbar. The program will start searching and show the result after a moment.

3.9. Live View

Once searching and configuration on IP devices are done, you should make sure that the IP devices are accessible with the new settings. The best way to do it is by connecting the homepage of each IP device's built-in server, and starting Live View feature.

Select **Go Product Homepage** when you click the mouse right button on the IP device to test.


Model MAC address IP address IP Type Server name HTTP port Version Status
FW5870-VR-C 00306F004D93 192.168.2.41 static FW-5870 80 4.10-06 Success
FW-1173-DS 00306F811FB0 192.168.2.40 static FW-1173-DS Success
Go Product Homepage
Setup Product IP

If you select **Go Product Homepage**, the homepage of that device's built-in server will be opened on a new Web browser window as shown below. This is the same result when you click Connect Product Homepage button from the Main Toolbar.

Click Live View on the top right of the window, then SmartViewer ActiveX program will be started. If you have not installed the SmartViewer program before, it will ask a confirmation to install it. Allow it and you will be able to find out whether the configuration by IP Installer program is properly done.

Note: Refer to SmartViewer User's Manual for detailed information on SmartViewer ActiveX program.